

How To Print 3D Models

For Students

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CalArts Print Output Services

Printer model:

Form2

Resin based 3D printer

Build volume:

5.7 x 5.7 x 6.9

(Length X Width X Height)

Charging unit:

0.60\$ per millilitre of resin

Resin available:

Clear resin

Colored resin

Accepted Formats:

OBJ, STL

Required file settings for printing 3D models

File is **OBJ** or **STL**

Files up to approx. 1 million polygons are possible, however quality and printing times will be affected by higher polygon count.

(recommended)

Supply Flash drive with file

Output Services does not provide any file editing, file clean up or imposition services. These are the sole responsibility of the student /client.

Drop in for a consult.

Printer details:

Model: Form2

Maker: Formlabs

Build volume: 5.7 x 5.7 x 6.9 (Length X Width X Height)

Preparation

File accepted: .obj .stl

Exporting file from Maya: <https://www.youtube.com/watch?v=H-xd6p4Rvak>

Exporting file from C4D: https://www.cineversity.com/vidplaytut/how_to_import_and_export_obj_models

Useful Links for setting up files

Design specs and tips to avoid problems when printing:
<https://formlabs.com/3d-printers/form-2/design-specs/https://support.formlabs.com/hc/en-us/articles/115000021950-Start-with-a-Good-STL-or-OBJ-File>

Meshmixer is a free software that can be used to fix your 3D scans or models:

<http://www.meshmixer.com>

<https://www.youtube.com/watch?v=N8V9UnaD0Hc>

https://www.youtube.com/watch?v=8s7KCZ_zIz8

Another really useful and free for student software is Fusion 360:

<https://www.autodesk.com/products/fusion-360/students-teachers-educators>

If your file dimensions are too big, you can still print it in parts and assemble it later on:

<https://www.youtube.com/watch?v=ABcl6Q8A3ps>

Preparing Your File for 3D Printing (Animation by Michael McNeff) :

<https://fvtech.zendesk.com/hc/en-us/articles/360025840331Preparing-Your-File-for-3D-Printing>

Useful Links for post

Once your model is printed and cured, you can remove the supports, sand it, and eventually paint it:

<https://support.formlabs.com/hc/en-us/articles/115000035230-Removing-Support-Marks>

<https://support.formlabs.com/hc/en-us/articles/115000024644>

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